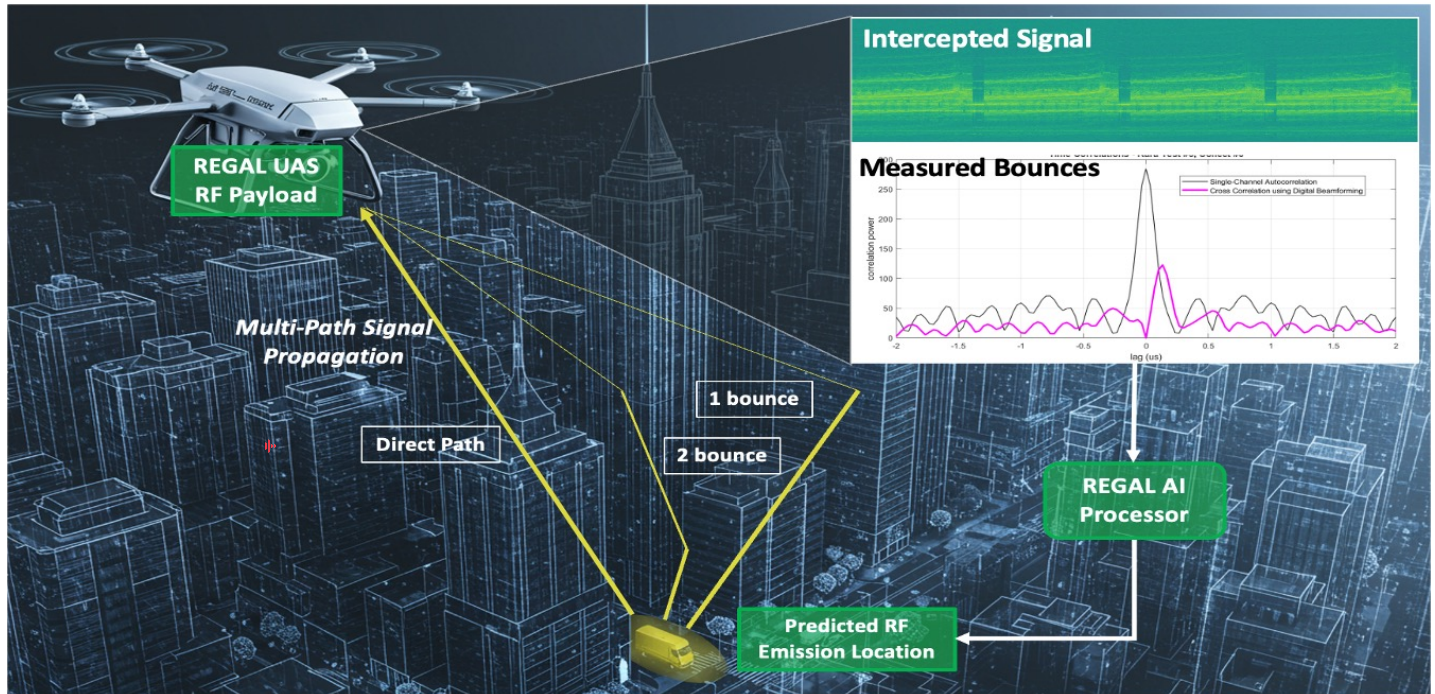


REGAL

Rapid Emitter Geolocation with Adaptive Learning
EW Targeting Payload for Group 1&2 UAS Systems



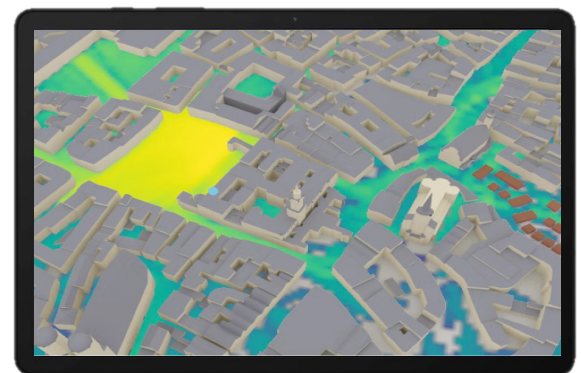
DESCRIPTION

REGAL is a low-SWAP RF payload that detects, characterizes, and geolocates RF emitters in all environments from austere and GPS-denied to dense-urban. By exploiting multi-path propagation effects, REGAL improves the geolocation accuracy of emitters in dense urban environments through pre-mission training and algorithm fine-tuning. REGAL is currently a Phase 2 SBIR with AFRL.



CUSTOMIZABLE OPTIONS

Usage: Dismounted, Mounted, UAS Payload
Interoperability: Reports Geolocations to ATAK, Lattice, and direct-to-operator
Command & Control: Manual flight, custom flight-paths, set-and-forget for automatic ISR



TARGET SPECIFICATIONS

Geolocation Accuracy: <5m (Dense Urban), 0.5m (with integrated Optical Sensor)
Pre-Mission Training Time:

- None – Online learning only
- < 1h – Urban Environment
- < 16h – Dense Urban Environment